ABSTRACT

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A partial response is utilized to record information on a medium and then regenerate the information from the medium. A regenerating system undergoes equalization including subjecting a regeneration signal from the medium to the convolution of

(k-s·D)

(where D is one (1) bit delay operator, and
k and s are positive integer).

Such convolution is performed in the regenerating system so that low-frequency band noises are reduced with an improved error rate. The

15 information is decoded from the equalized signal by use of maximum-likelihood detection.